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GRADIATION FOR WMM

MORTH TABLE – 400 - 11

NAME OF WORK: Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division

Client : Executive Engineer, project division, yelahanka zone

Name of the Agency :M/s Ramkrishy Infrastructure Pvt Ltd

Reference : EE(Project)/YNK zone/WO/107/2020-21 , Dated 03-10-2020

Date of Testing : 15.12.2021

IS Sieve Size in mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	Cumulative % of Retained	Cumulative % of Passing	Specific Limits
53	0	0	0	100	100
45	117	117	1.4	98.6	95-100
22.4	2514	2631	30.9	69.1	60-80
11.2	1478	4109	48.3	51.7	40-60
4.75	1352	5461	64.2	35.8	25-40
2.36	998	6459	75.9	24.1	15-30
0.600	945	7404	87.0	13.0	8-22
0.075	902	8306	97.6	2.4	0-8

Note:

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Aggregate Impact Value (W.M.M.)

IS : 2386 Part IV

NAME OF WORK: : Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division.

Client : : Executive Engineer, project division, yelahanka zone

Name of the Agency : M/s Ramkrishy Infrastructure Pvt Ltd

Reference : EE(Project)/YNK zone/WO/107/2020-21 , Dated 03-10-2020

Date of Testing : 15.12.2021

Sl. No	Details	Trial No.		Average
		1	2	
1	Total Weight of aggregate sample filling the cylindrical measure = W_1 g	386	383	
2	Weight of aggregate passing throw 2.36 mm IS sieve after the test = W_2 g	89	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	366	361	
4	Aggregate Impact value = percent fine	23.06	22.19	22.63
	$100*(W_2/W_1)\%$			

Comments:

- **Maximum allaovable Aggregate Impact value for Wet Mix Macadam is 30%.**

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Determination of Flakiness Index & Elongation Index of Coarse Aggregate.

NAME OF WORK: Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division.

Client : Executive Engineer, project division, yelahanka zone

Name of the Agency : M/s Ramkrishy Infrastructure Pvt Ltd

Reference : EE(Project)/YNK zone/WO/107/2020-21 , Dated 03-10-2020

Date of Testing : 15.12.2021

Result: Flakiness Index = 12.32%.

Elongation Index = 13.63%.

Result: Combined Flakiness & Elongation Index = 25.95%.

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%.

Note:

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PREETHI CAD CONSULTING ENGINEERS PVT. LTD.

PROJECT CONSULTANT

Tests on Cement

[IS:4031 – Part 1 to 5]

TEST REPORT

Project Name:	Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	M/s Ramkrishy Infrastructure Pvt Ltd	**Date:**	08/01/2022
Sample Supplied by:	Agency / Contractor		

The test results conducted on the cement sample are as follows:

Sl No	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Fineness of Cement	IS 4031 (Part-1)	3.1%	Obtained Test Results Should Be Less Than 10%	OPC
2	Initial Setting Time	IS 4031 (Part-5)	126Minutes	Obtained Test Results Should not be less than 30 minutes	
3	Final Setting Time	IS 4031 (Part-5)	343Minutes	Obtained Test Results Should not be more than 600 minutes	
4	Soundness	IS 4031 (Part-3) by Le-Chatelier method	3.3 mm	Not more than 10mm	
5	Standard Consistency	IS-4031 (Part-4)	28%	Obtained Test results Should be 20% to 30%	

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Note:-

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- The results relate only to the items tested.
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PREETHI CAD CONSULTING ENGINEERS PVT. LTD.

PROJECT CONSULTANT

Gradation Test on Fine Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	M/s Ramkrishy Infrastructure Pvt Ltd	**Date**	05/12/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate	**Total weight taken:**	1500 gms

The test results conducted on the fine aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
10	0	0	0	100	100
4.75	75	75	5.00	95.00	90 to 100
2.36	134	209	13.93	86.07	75 to 100
1.18	324	533	35.53	64.47	55 to 90
600 Micron	350	883	58.87	41.13	35 to 59
300 Micron	329	1212	80.80	19.20	8 to 30
150 Micron	267	1479	98.60	1.40	0 to 10
Pan	21	1500	100	0.00	0

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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PROJECT CONSULTANT

TEST REPORT

Specific Gravity of Fine Aggregates

IS:2386(PART3):1963(RA 2016)

Project Name:	Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division	**Sl. No.: 03**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	M/s Ramkrishy Infrastructure Pvt Ltd	**Date:**	05/12/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate		

The test results conducted on the fine aggregate sample are as follows:

Sl no	Description	Sample weight	Test Method As Per IS 2386(Part 3):1963(RA 2016)
1	Weight of Saturated dry sample (C),gm	500	Standard Requirements (2 to 4)
2	Weight of Pycnometer +Saturated dry sample + Water (A),gm	1853	

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3	Weight of Pycnometer +Water (B),gm	1526	
4	Weight of Oven Dry Sample (D), gm	486	
I	**Specific Gravity ,G**	**2.81**	
II	**Apparent Specific Gravity**	**3.06**	
III	**Water Absorption**	**2.88%**	**Standard Requirements (0.1% to 5%)**

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PROJECT CONSULTANT

Specific Gravity of Fine Aggregates

IS:2386(PART3):1963(RA 2016)

TEST REPORT

Project Name:	Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division	**Sl. No.: 03**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	M/s Ramkrishy Infrastructure Pvt Ltd	**Date:**	05/05/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate		

The test results conducted on the fine aggregate sample are as follows:

Sl no	Description	Sample weight	Test Method As Per IS 2386(Part 3):1963(RA 2016)
1	Weight of Saturated dry sample (C),gm	500	Standard Requirements (2 to 4)
2	Weight of Pycnometer +Saturated dry sample + Water (A),gm	1853	

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3	Weight of Pycnometer +Water (B),gm	1526	
4	Weight of Oven Dry Sample (D), gm	486	
I	**Specific Gravity ,G**	**2.81**	
II	**Apparent Specific Gravity**	**3.06**	
III	**Water Absorption**	**2.88%**	**Standard Requirements (0.1% to 5%)**

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PREETHI CAD CONSULTING ENGINEERS PVT.LTD

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, project division, yelahanka zone.
Name of Work	Package No-11 1.Providing Children playing equipments and gym equipments at Allalasandra Lake in ward No.04 of Yelahanka Division 2.Providing Children playing equipments and gym equipments in ward No.02,03 and 04 Yelahanka Division 3.Providing Grill Fencing to Selected parks in Ward No.02, 03 & 04 of Yelahanka Division 4.Providing Grill Fencing and Construction of Badminton court at Allalasandra Lake in Ward No.04 of Yelahanka Division 5.Providing Grill Fencing at Someshwara Hill lake in Ward No.03 of Yelahanka Division
Name of Agency	M/s Ramkrishy Infrastructure Pvt Ltd
Grade of Concrete	M-20
No. of cubes tested	3
Location	At site
Technical Reference	IS: 516-1959 (Reaffirmed 2013)
Date of testing	11/1/2022

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.09 X 150.07 X 150.0	22524	01/06/2021	28/06/2021	28	8.20	625	**27.75**	**27.98**
2		150.05 X 150.08 X 150.0	22520				8.22	630	**27.98**	
3		150.06 X 150.04 X 150.0	22515				8.21	635	**28.20**	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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